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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/624,718	07/25/2000	Shinichi Yoshimura	112857-062	6804
29175 7	590 03/24/2004		EXAMINER	
BELL, BOYD & LLOYD, LLC P. O. BOX 1135 CHICAGO, IL 60690-1135			KAO, CHIH CHENG G	
			ART UNIT	PAPER NUMBER
- ,			2882	-

DATE MAILED: 03/24/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

			IN
	Application No.	Applicant(s)	
	09/624,718	YOSHIMURA, SHINICHI	
Office Action Summary	Examiner	Art Unit	
	Chih-Cheng Glen Kao	2882	
The MAILING DATE of this communication ap Period for Reply	ppears on the cover sheet wit	h the correspondence address	
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reg. - If NO period for reply is specified above, the maximum statutory period. - Failure to reply within the set or extended period for reply will, by statuly any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a re ply within the statutory minimum of thirty d will apply and will expire SIX (6) MONT te, cause the application to become AB/	ply be timely filed (30) days will be considered timely. "HS from the mailing date of this communication and the mailing date of this communication and the mail of the communication and the mail of the mail o	1.
Status			
1) Responsive to communication(s) filed on 20 I	February 2004.		
,	is action is non-final.		
3) Since this application is in condition for allowa	ance except for formal matte	ers, prosecution as to the merits is	3
closed in accordance with the practice under			
Disposition of Claims			
4)⊠ Claim(s) 1-15 is/are pending in the application	n.		
4a) Of the above claim(s) is/are withdra	awn from consideration.		
5) Claim(s) is/are allowed.			
6)⊠ Claim(s) <u>1-15</u> is/are rejected.			
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction and/	or election requirement.		
Application Papers			
9) The specification is objected to by the Examin	ier.		
10)⊠ The drawing(s) filed on 20 February 2004 is/a		bjected to by the Examiner.	
Applicant may not request that any objection to the			
Replacement drawing sheet(s) including the corre			d).
11) The oath or declaration is objected to by the E			
Priority under 35 U.S.C. § 119			
12)⊠ Acknowledgment is made of a claim for foreig	n priority under 35 U.S.C. §	119(a)-(d) or (f).	
a)⊠ All b)☐ Some * c)☐ None of: 1.☒ Certified copies of the priority document	nts have been received.		
2. Certified copies of the priority documer3. Copies of the certified copies of the priority	•	•	
application from the International Burea		occived in the Hadional Stage	
* See the attached detailed Office action for a lis	at of the certified copies not r	eceived.	
Attachment(s)	, .	(DTO 440)	
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)		ummary (PTO-413) /Mail Date	
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date		formal Patent Application (PTO-152)	

DETAILED ACTION

Drawings

1. The corrected drawings were received on 2/20/04. These drawings are acceptable.

Claim Objections

2. Claims 5 and 6 are objected to because of the following informalities, which appear to be minor draft errors creating lack of antecedent basis or grammatical problems. In the following format (location of objection; suggestion for correction), the following suggestions may obviate the objections: (claim 5, lines 2-3, "the rows or the columns"; inserting - -rows and columns, forming- - before "a matrix" in claim 1, line 2), (claim 6, line 13, "the processing"; deleting "the"), (claim 6, line 14, "than clear signal"; inserting - -the- - before "clear"), and (claim 6, line 14, "or transfer signal"; inserting - -the- - before "transfer").

For purposes of examination, the claims have been treated as such. Appropriate correction is required.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

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3. Claims 1-15 are rejected under 35 U.S.C. 102(b) as being anticipated by Miyawaki et al. (US Patent 5726439).

- 4. Regarding claims 1 and 6, Miyawaki et al. discloses an apparatus and method comprising light reception means and a step (col. 2, lines 48-53), operating units and a step for operating a signal by the light reception means being based on at least one of a clear signal and a transfer signal (Fig. 9A, at least #304-306), a plurality of outputting units for a step, each receiving a result of an operation of a corresponding one of the operating units and outputting the result (Fig. 9B, #341-343), and timing adjustment means and a step for adjusting a timing at which the result of the operation is output from the outputting units, said timing adjustment means using a control signal other than the clear or transfer signal (Fig. 9B, #349).
- 5. Regarding claims 2 and 7, Miyawaki et al. further discloses storage means and a step for storing a plurality of signals at different timings (Fig. 9A, transistors inside #304).
- 6. Regarding claims 3 and 8, Miyawaki et al. further discloses operating units and a step for executing a comparison operation (Fig. 9A, comparator).
- 7. Regarding claims 4 and 9, Miyawaki et al. further discloses an arithmetic operation for determining a maximum or minimum value (col. 10, lines 28-30).

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8. Regarding claims 5 and 10, Miyawaki et al. further discloses outputting units outputting results of an arithmetic operation (Fig. 9A, #311) for each of the rows or columns by timing adjustment means (Fig. 9B, #349).

- 9. Regarding claims 11 and 12, Miyawaki et al. discloses an apparatus and method comprising light reception means and a step (col. 2, lines 48-53), operating units and a step for operating a signal by the light reception means being based on at least one of a clear signal and a transfer signal (Fig. 9A, at least #304-306), wherein operation includes a plurality of modes selected based on a control signal other than the clear and transfer signal (Fig. 9A, #310), and wherein the plurality of modes are represented by different expressions from each other (col. 9, lines 46-52).
- 10. Regarding claim 13, Miyawaki et al. further discloses operating units performing an arithmetic operation (Fig. 9A, #311).
- 11. Regarding claims 14 and 15, Miyawaki et al. further discloses operating units storing (Fig. 9A, transistors in #304-306) and operating (Fig. 9A, comparator) a plurality of photoelectrically converted signals (col. 2, lines 48-53) at predetermined timing intervals (Fig. 2 and 5) in the order in which signals are received.

Response to Arguments

12. Applicant's arguments, see the last paragraph on page 7, filed 2/20/04, with respect to the rejection(s)of claim(s) 1 and 6 under 35 U.S.C. 103(a) have been fully considered and are

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persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of Miyawaki et al. as recited above, thus withdrawing finality of the last Office action.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chih-Cheng Glen Kao whose telephone number is (571) 272-2492. The examiner can normally be reached on M - F (9 am to 5 pm).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ed Glick can be reached on (571) 272-2490. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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